PATENT Customer No. 22,852 Attorney Docket No. 06502.0302-00

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Paul J. HINKER

Application No.: 09/686,628

Filed: October 12, 2000

For: AUTOMATIC CONVERSION OF SOURCE CODE FROM 32-BIT TO 64-BIT

Brown Art Unit: 2122

Examiner: Gross, Kenneth A.

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97(c)

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(c), Applicant brings to the attention of the Examiner the documents listed on the attached PTO 1449. This Information Disclosure Statement (IDS) supplements IDSs filed on January 20, 2004, October 15, 2003, August 5, 2003, April 2, 2003, September 25, 2002, July 3, 2002, May 29, 2002, March 7, 2002, December 3, 2001, and October 3, 2001. This IDS is being filed after the events recited in Section 1.97(b) but, to the undersigned's knowledge, before the mailing date of either a Final action, Quayle action, or a Notice of Allowance. Under the provisions of 37 C.F.R. § 1.97(c), this Information Disclosure Statement is accompanied by a fee of \$180.00 as specified by Section 1.17(p).

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1300 I Street, NW Vashington, DC 20005 202.408.4000 Fax 202.408.4400 www.finnegan.com

Application No. 09/686,628 Attorney Docket No. 06502,0302-00

Copies of the listed documents are attached. Applicant requests that the Examiner consider the listed documents and indicate that they were considered by making appropriate notations on the attached form.

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If there is any fee due in connection with the filing of this Statement, please charge the fee to our Deposit Account No. 06-0916.

Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P.

Dated: January 27, 2004

Frank A. Italiano Reg. No. 53,056

FINNEGAN HENDERSON FARABOW GARRETT & DUNNER LL

1300) Street, NW . Vashington, DC 2000S 202_408,4000 Fax 202,408,4400 www.finnegan.com OMB No. 0651-0011

INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

Atty. Docket No.: 06502.0302-00

Applicant:

Filing Date: October 12, 2000

Group 2122

Examiner Initial*	Document Number	Date	Name	C)ass	Sub Class	Filing Date If Appropriate
	5,574,922	11/12/1996	James			
	6,052,763	4/18/2000	Maruyama			
	6,088,771	7/11/2000	Steely, Jr. et al.			~
	6,353,869 B1	3/5/2002	Ofer et al.			
	6,430,657 B1	8/6/2002	Mittal et al.			
	6,502,136 B1	12/31/2002	Higuchi et al.			·· <u></u>
	6,629,214 B1	9/30/2003	Arimilli et al.			
	FC	REIGN PATENT	DOCUMENTS			
Examiner Initial*	Document Number	Date	Country	Class	Sub Class	Translation Yes or No

OTHER DOCUMEN	ITS (Including Author, Title, Date, Pertinent Pages, Etc.)

Examiner Date Considered:

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO 1449

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PLEASE STAMP TO ACKNOWLEDGE RECEIPT OF THE FOLLOWING:

In Re Application of: Paul J. HINKER

Application No.: 09/686,628

Filed: Qctober 12, 2000

Group Art Unit: 2122

Examiner: K. Gross

For: AUTOMATIC CONVERSION OF SOURCE CODE FROM 32-BIT TO 64-BIT

1. Information Disclosure Statement under 37 C.F.R. § 1.97(c)

2. Form PTO 1449 w/ copy of five (5) documents

3. Check: \$180.00

Dated January 20, 2004 Docket No.: 6502.0302

JAB/FAI:J. Walker - Mail Drop 878



(Due Date: N/A)

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PATENT Customer No. 22,852 Attorney Docket No. 06502.0302-00

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Paul J. HINKER

Application No.: 09/686,628

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Application No. 09/686,628 Attorney Docket No. 06502.0302-00

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Respectfully submitted.

FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P.

Dated: January 20, 2004

Frank A. Italiano Reg. No. 53,056

FINNECAN HENDERSON FARABOW GARRETT & DUNNER***

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OMB No. 0651-0011

INFORMATION DISCLOSURE CITATION

Atty. Docket No.	06502.0302-00	Appin. No.	686,628/09	
Applicant	Paul J. HINKER			
Filing Date	October 12, 2000	Group:	2122	

U.S. PATENT DOCUMENTS						
Examiner Initial*	Document Number	Issue Date	Name	Class	Sub Class	Filing Date
	5,274,821	12/28/1993	Rouquie			
	5,640,550	06/17/1997	Coker			
	6,647,546 B1	11/11/2003	Hinker et al.			
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 Document Number	Publication Date	Country	Class	Sub Class	Translation Yes or No
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 OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
Buckley, A. G., "Conversion to Fortran 90: A Case Study," ACM, 1994, pp. 308-353
Purtilo, James M. et al., "Module Reuse by Interface Adaptation," Software – Practice and Experience, 1991, pp. 539-556

Examiner		Date Considered
*Examiner:	Initial if reference con through citation if not communication to app	sidered, whether or not citation is in conformance with MPEP 609; draw line in conformance and not considered. Include copy of this form with next blicant.
Form PTO 14	49	Patent and Trademark Office - U.S. Department of Commerce

Conversion to Fortran 90: A Case Study

A. G. BUCKLEY
Royal Roads Military College

The features of the new standard language Fortran 90 are introduced and discussed. In order to focus the discussion, the particular context is the convariant of an existing published ACM Transactions on Mathematical Software algorithm from Fortran 77 to the new standard. Emphasia is on the new features of the language, including the array facilities, the use of modules, the applicability of user-defined (-derived) data types, the reduction in machine dependence of numeric cultss, and the dynamic allocation of stange. That intent is that writers of software as well as these who use Fortran in scientific and engineering work will find this a helpful introduction to the new and powerful features of Fortran 90.

Categories and Subject Descripture D.3.3 [Programming Languages]: Language Constructs and Features—Fortran 90; G.4 [Mathematics of Computing]: Mathematical Software

General Terms: Algorithms, Languages, Standardization

Additional Key Words and Phrases: Conversion, Fortron 90, new features, overview

1. INTRODUCTION

As many readers will be aware, Fortran 90 is now upon us. The purpose of this article is to demonstrate some of the very significant gains that may be achieved through its use by examining the conversion of Algorithm 630 (see Buckley and LeNir [1985]) to Fortran 90. The resulting algorithm appears in the companion paper (Buckley 1993). For convenience, these two are referred to as Algorithm 630 and Algorithm 734. Both solve a optimization problem that is described in Section 2.

A number of features of the new language are introduced and illustrated by examples from the converted program. Although one objective is to study the conversion of this particular algorithm, Fortran 90 is discussed in general terms as well, where it is thought appropriate to introduce readers to useful features of the language.

Support of both the Netural Sciences and Engineering Research Council of Canada (NSERC, held at the University of Victorial, grant OGP0092109, and of the Department of National Defence of Canada, ARP grant 3705-907-FUHIA, is gratefully acknowledged Author's address: Department of Mathematica. Royal Roads Military College, FMO Victoria, British Columbia, VOS 180 Canada

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\$ 1994 ACM 0098 3500/94/0800 0308\$3.50

ACM Transactions on Mathematical Software, Vol. 20, No. 3, September 1994, Pages 308-353



SOFTWARE—PRACTICE AND EXPERIENCE, VOL. 21(6), 539-556 (JUNE 1991)

Module Reuse by Interface Adaptation

JAMES M. PURTILO AND JOANNE M. ATLEE
Computer Science Department, University of Maryland, College Park, Maryland 20742.
U.S.A.

SUMMARY

This paper describes a language called Nimble that allows designers to declare how the actual parameters in a procedure call are to be transformed at run time. Normally, programmers must edit an application's source in order to adapt it for reuse in some new context where the interfaces fail to match exactly (e.g. the parameters may appear in a different order, data types may not exactly match, and some data may need to be either initialized or masked out when the reusable module is integrated within a new application.) But Nimble allows programmers to adapt the interfaces of existing software without having to operate on the source manually. As a result, existing software may be easily reused in a broader range of applications, and software libraries do not need to store many variants of a component that differ only in how the interfaces are used. Nimble has been implemented on a variety of Unix hosts, and is part of a broader reuse project at the University of Maryland. Our current system is suitable for use either in conjunction with existing module interconnection languages, or stand-alone with C, Pascal and Ada source programs.

ker words. Module interconnection language. Software reuse

INTRODUCTION

The ability to reuse components is an economic necessity within software development projects, and is critical within prototyping efforts. Systems to help identify reusable components are increasingly able to suggest application modules with the specified functionality. However, often such modules must be adapted in some manner before they can be used. For example, parameters may appear in a different order, data types may not exactly match, and some data may need to be either initialized or masked out when the reusable module is integrated within a new application. As the amount of adaptation increases, the economic benefit of reusing that component is decreased.

In order to reduce the cost of adapting software for reuse, we turn to automatic techniques. Typically, the emphasis has been upon transformation of abstract specifications into a valid implementation, where tailoring of interfaces is performed during generation of the source programs, such as shown in References 2 and 3. A more recent development is a language for transforming control structures of an Ada-like language; in this way programmers can easily adapt algorithm implementations for application to elaborate data sets, and tailoring of interfaces is again performed during the source to source transformation.

0038-0644/91/060539-18\$09.00 © 1991 by John Wiley & Sons, Ltd.

Received 27 August 1990 Revised 28 November 1990

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PLEASE STAMP TO ACKNOWLEDGE RECEIPT OF THE FOLLOWING:

In Re Application of: Paul J. HINKER

Application No.: 09/686,628

Filed: October 12, 2000

Group Art Unit: 2122

Examiner: K. Gross

For: AUTOMATIC CONVERSION OF SOURCE CODE FROM 32-BIT TO 64-BIT

1. 2. Information Disclosure Statement under 37 C.F.R. § 1.97(c)

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Dated October 15, 2003 Docket No.: 6502,0302

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Kristopher G. Foley

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Application No.: 09/686,628 Attorney Docket No. 06502.0302-00

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Dated: October 15, 2003

Frank A. Italiano Reg. No. 53,056

FINNEGAN HENDERSON FARABOW GARRETT & DUNNERUP

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INFORMA (Use s	ATION DISCLOSURE CITATION several sheets if necessary)
Atty. Docket No.: 06502.0302-00000	Application No.: 686,628/09
Applicant: Paul J. HINKER	
Filing Date: October 12, 2000	Group 2122

Examiner Initial*	Document Number	Date	Name	Class	Sub Class	Filing Date
	5,535,393	7/9/1996	Reeve et al.		111111	
Examiner Initial*	Document Number	Date	Country	Class	Sub Class	Translation
					Olass	Yes or No

Examiner	Date Considered:
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Application No.: 09/686,628

Group Art Unit: 2122

Filed: October 12, 2000

Examiner: Kenneth A. Gross

For: AUTOMATIC CONVERSION OF SOURCE CODE FROM 32-BIT TO 64-BIT

1. Amendment

Dated September 22, 2003

Docket No.: 6502.0302

JAB/FAI:J. Walker - Mail Drop 878

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(Due Date: September 23, 2003)

9/13/07